**FIG. I**

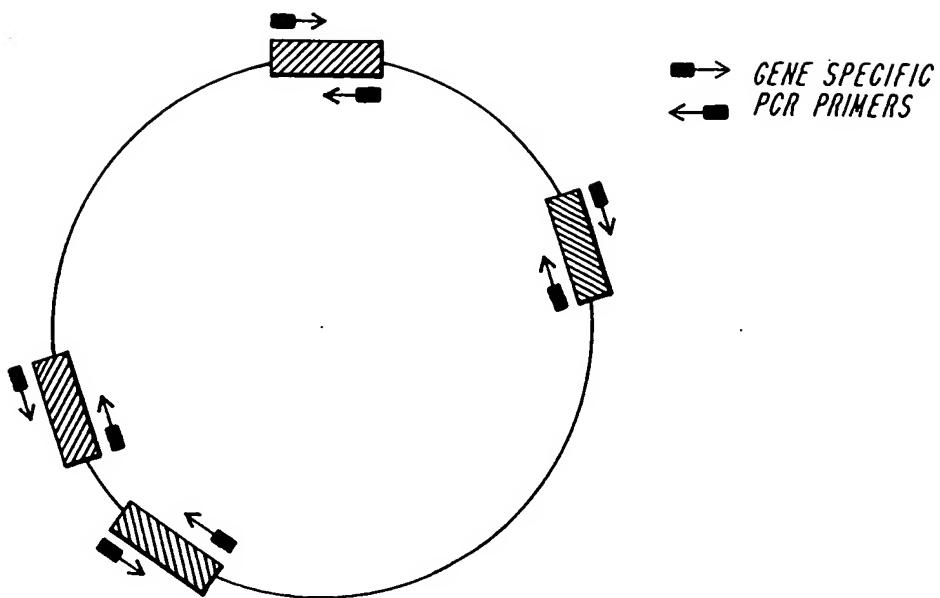


FIG. 2A

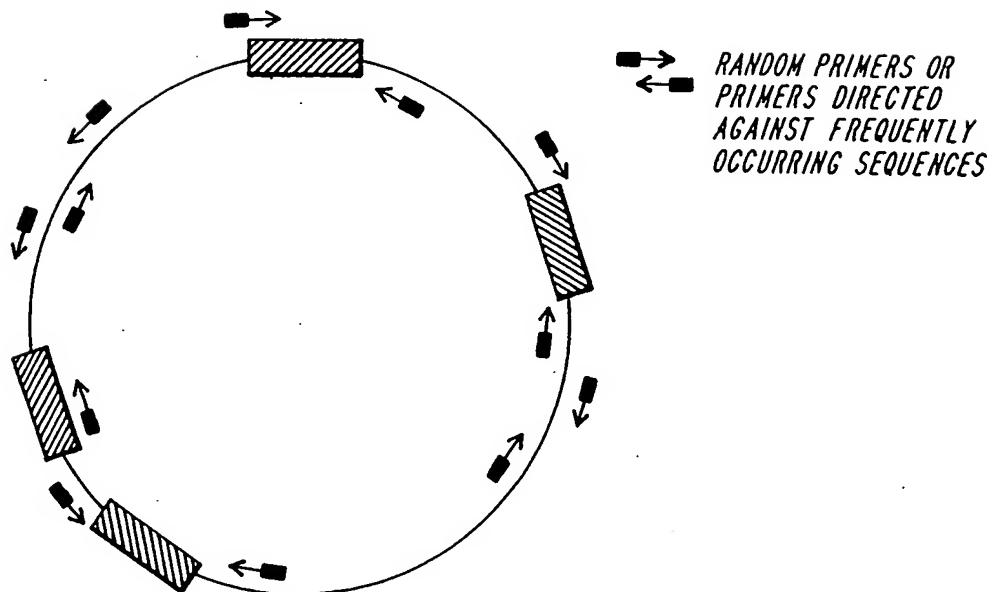
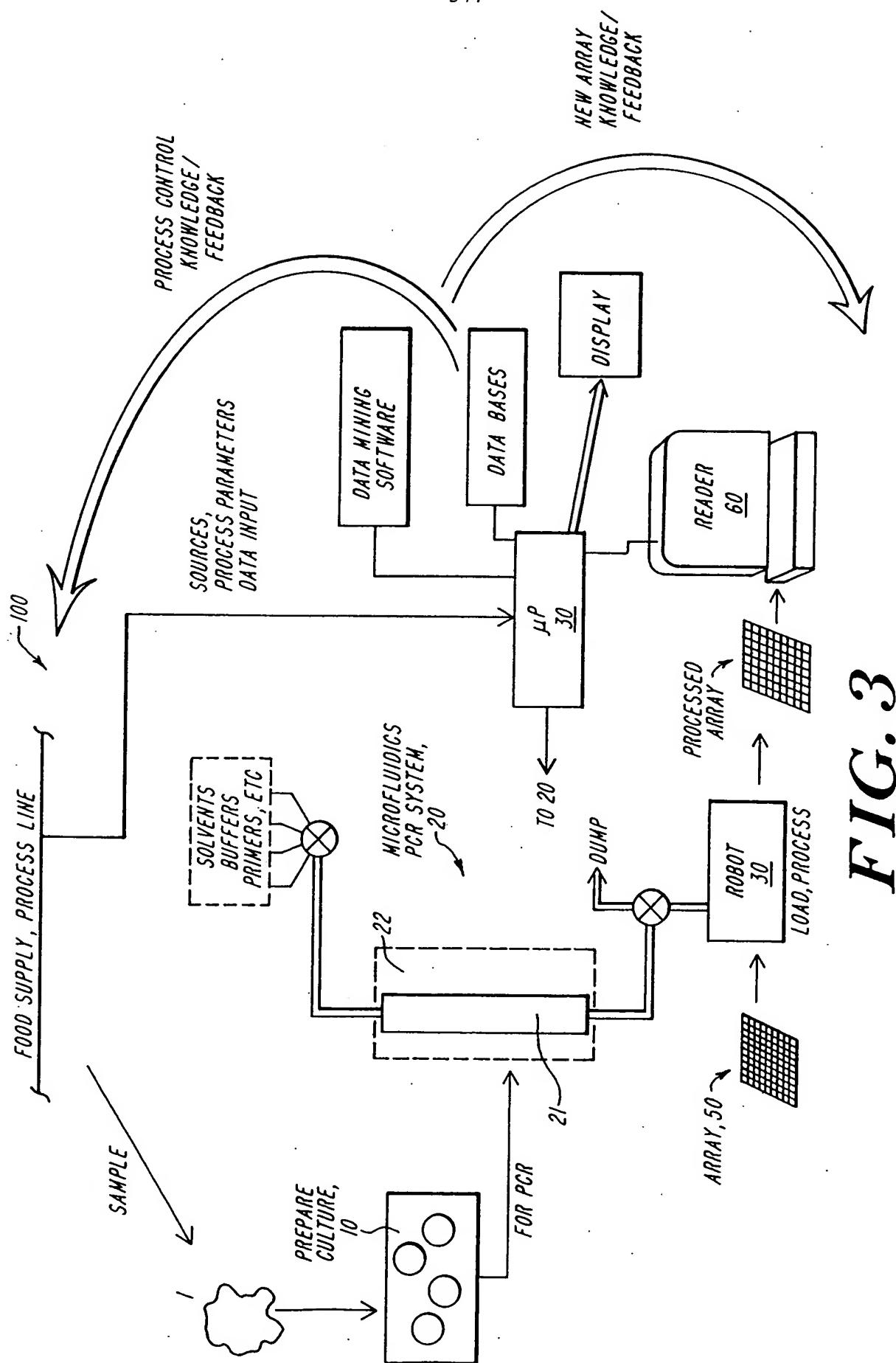


FIG. 2B



Gene target table for model array

	A-B	C-D	E-F	G-H	I-J	K-L	M-N	O-P	Q-R	S-T	U-V	W-X
1 Bacillus/Listeria	Bacillus Hemolysin BL	Bacillus Enterotoxin	Bacillus <i>dacF</i>	Bacillus <i>spoilGA</i>	Bacillus <i>sigE</i>	Bacillus Enter- Toxin A (<i>hbIB</i>)	Bacillus <i>spoOA</i>	Bacillus <i>spoilAA</i>	Bacillus <i>ltaA</i>	Listeria <i>ltaA</i>	Listeria <i>mpf</i>	
2 Controls	Blank	Blank	Control <i>gfp</i>	Control <i>gfp</i>	Control <i>gfp</i> 1:100	Control <i>gfp</i> 1:1000			Control <i>gfp</i>	Control <i>gfp</i>		
3 Campylobacter/Lis- teria	Campy <i>pglA</i>	Campy <i>cjaA</i>	Campy <i>flaB</i>	Campy <i>cjaE</i>	Campy <i>flaP</i>	Campy <i>pglD</i>	Campy <i>pglF</i>	Campy <i>pglB</i>	Campy <i>lnlB</i>	Listeria <i>hlyA</i>	Listeria <i>lnlA</i>	
4 E.coli/Listeria	E.coli 23sRNA	E.coli <i>lacZ</i>	E.coli <i>thtRNA</i>	E.coli <i>hyd</i>	E.coli <i>gdh</i>	E.coli <i>rpoS</i>	E.coli <i>uidA</i>	E.coli <i>alr</i>	Listeria <i>prfA</i>	Listeria <i>prfB</i>	Listeria <i>prfC</i>	
5 Yersinia/O157	Yersinia <i>yopD</i>	Yersinia <i>yopB</i>	Yersinia <i>yopH</i>	Yersinia <i>yopE</i>	Yersinia <i>lcrV</i>	Yersinia <i>wrf</i>	Yersinia <i>yopN</i>	Yersinia <i>yopM</i>	Yersinia <i>ehxA</i>	O157:H7 <i>hlyA</i>	O157:H7	
6 Staphylococcus aureus/E. coli O157:H7	S. aureus <i>entG</i>	S. aureus <i>sarA</i>	S. aureus <i>entA</i>	S. aureus <i>entD</i>	S. aureus nuclease	S. aureus <i>set1A</i>	S. aureus <i>agrB</i>	S. aureus <i>entI</i>	S. aureus <i>tssf-1</i>	O157:H7 <i>espP</i>	O157:H7 <i>eeeA</i>	O157:H7 <i>etpC</i>
7 Shigella/E. coli O157:H7	Shigella <i>fur</i>	Control <i>gfp</i>	Shigella <i>icsB</i>	Shigella <i>stxA</i>	Shigella <i>lpac</i>	Shigella <i>vacB</i>	Control <i>gfp</i>	Shigella <i>lpab</i>	Shigella <i>virR</i>	Shigella <i>sod</i>	Control <i>gfp</i>	Shigella <i>virF</i>
8 Salmonella/E. coli O157:H7	Salmonella <i>sopE</i>	Salmonella <i>pagC</i>	Salmonella <i>invJ</i>	Salmonell <i>spiA</i>	Salmonell <i>prgK</i>	Salmonell <i>traJ</i>	Salmonell <i>traK</i>	Salmonell <i>invH</i>	Salmonell <i>traB</i>	O157:H7 <i>Rnt2</i>	O157:H7 <i>stx2</i>	O157:H7 <i>escT</i>

FIG. 4

FIG. 4A

1A-1R = *Bacillus cereus*

2A-2Z = controls

3A-3R = *Campylobacter jejuni*

4A-4R = *E. coli*

5A-5R = *Yersinia enterocolitica*

6A-6R = *Staphylococcus aureus*

7A-B, 7E-L, 7O-T, 7W-X = *Shigella dysenteriae*

8A-8R = *Salmonella enterica*

1S-1X = *Listeria monocytogenes*

2S-2X = controls (UV are positive controls)

3S-3X = *Listeria monocytogenes*

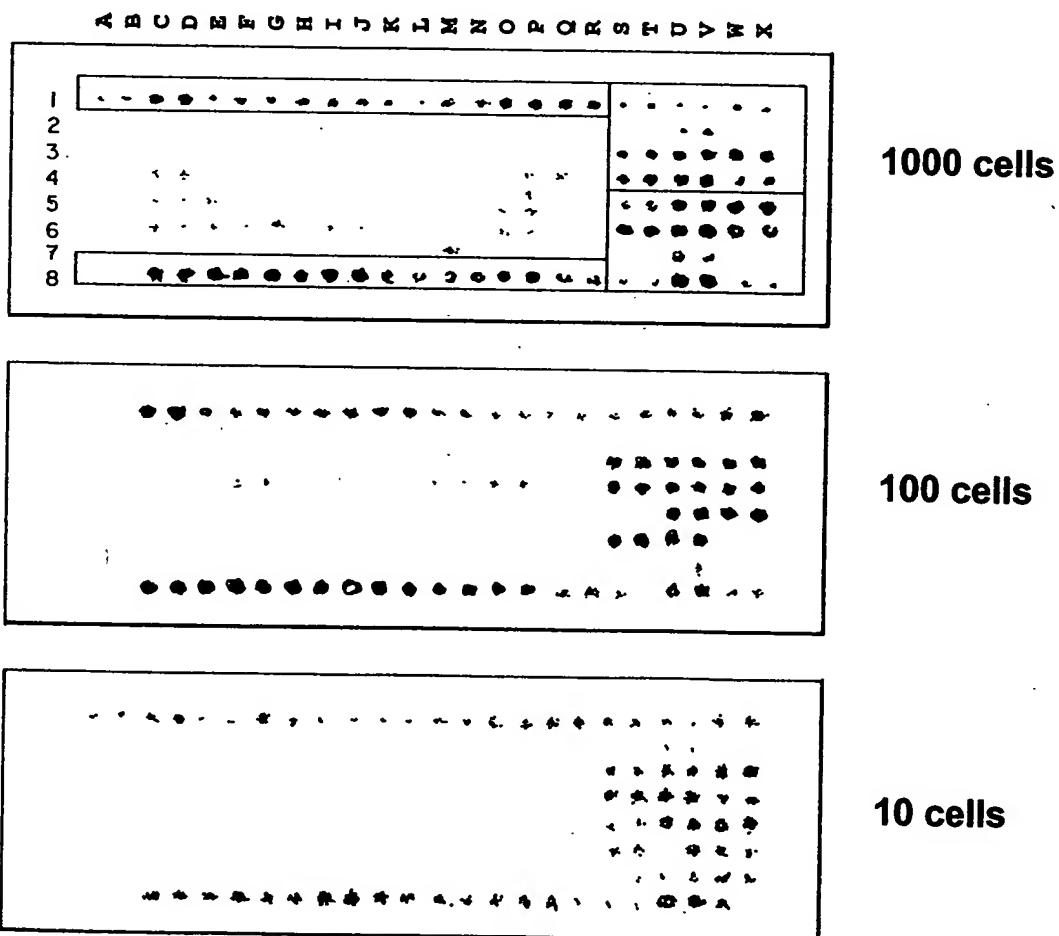
4S-4X = *Listeria monocytogenes*

5S-5X = *E. coli O157:H7*

6S-6X = *E. coli O157:H7*

7C-D, 7M-N, 7U-V = controls (UV are + controls)

8S-8X = *E. coli O157:H7*



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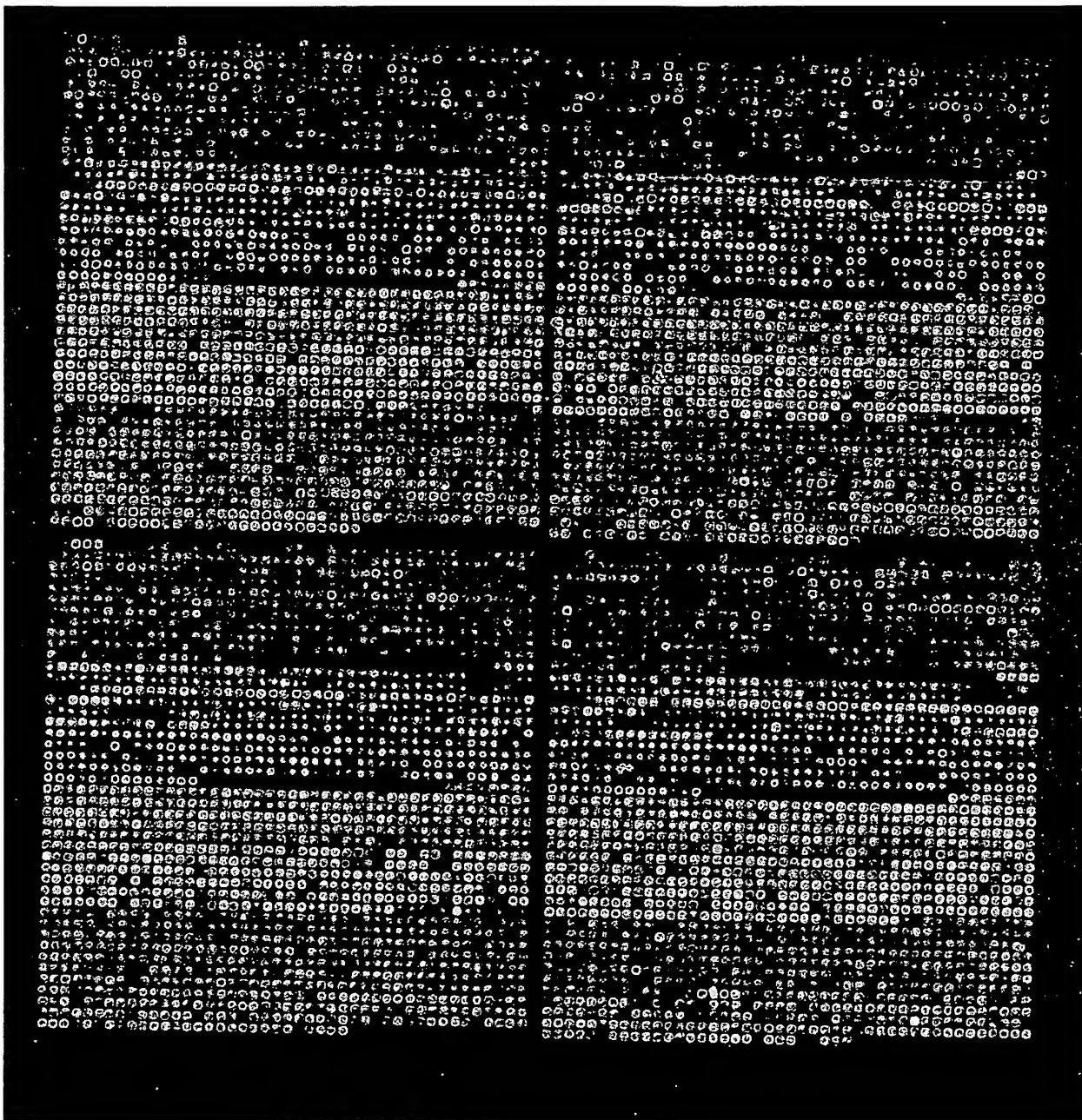


FIG. 5

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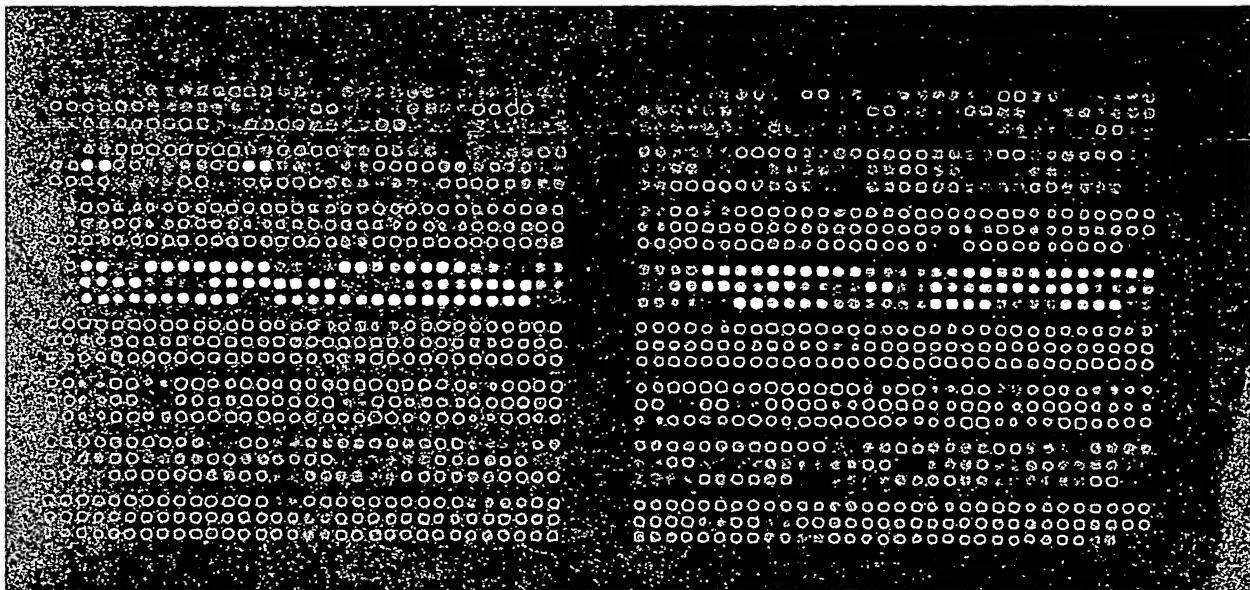


FIG. 6

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